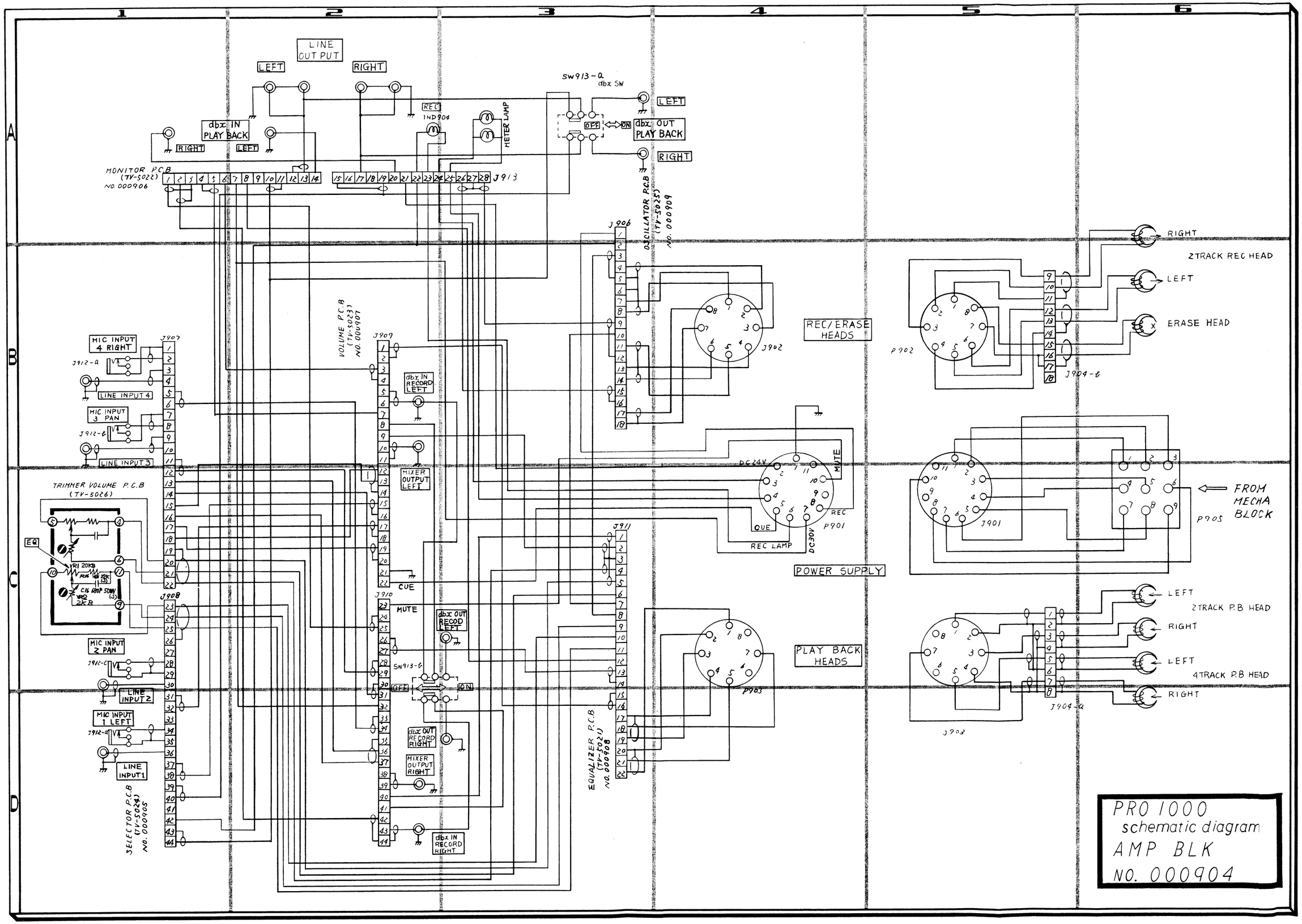
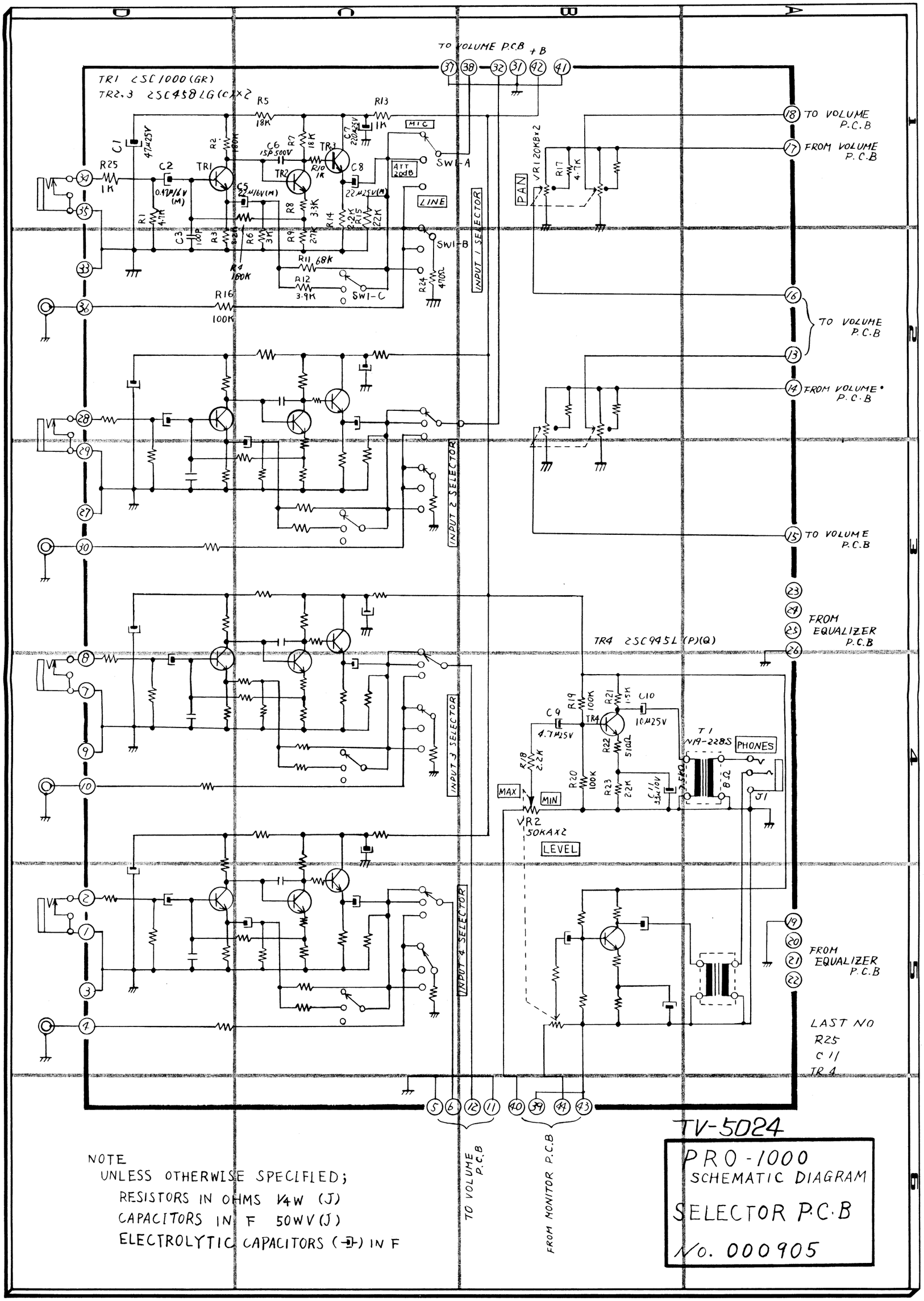
AKAI

# PRO1000

MODEL

SERVICE MANUAL


LINE OUT PUT
LEFT
RIGHT
dbx IN PLAY BACK
RIGHT
LEFT
REC IND904
METER LAMP
SW913-a dbx SW
OFF
ON
LEFT
dbx OUT PLAY BACK
RIGHT
MONITOR P.C.B (TV-5022) NO. 000906
J913
OSCILLATOR P.C.B (TV-5025) NO. 000909
J906
VOLUME P.C.B (TV-5023) NO. 000907
J909
MIC INPUT 4 RIGHT
J912-a
LINE INPUT 4
MIC INPUT 3 PAN
J912-b
LINE INPUT 3
TRIMMER VOLUME P.C.B (TV-5026)
EQ
VR1 20KB
VR2 2KB
C1 680P 50WV (3)
J908
MIC INPUT 2 PAN
J912-c
LINE INPUT 2
MIC INPUT 1 LEFT
J912-d
LINE INPUT 1
SELECTOR P.C.B (TV-5024) NO. 000905
dbx IN RECORD LEFT
MIXER OUTPUT LEFT
CUE
MUTE
dbx OUT RECORD LEFT
SW913-b
OFF
ON
dbx OUT RECORD RIGHT
MIXER OUTPUT RIGHT
dbx IN RECORD RIGHT
J910
J911
EQUALIZER P.C.B (TV-5021) NO. 000908
J902
REC/ERASE HEADS
DC24V
MUTE
REC
QUE
REC LAMP
DC30V
P901
POWER SUPPLY
P903
PLAY BACK HEADS
P902
RIGHT
2TRACK REC HEAD
LEFT
ERASE HEAD
J904-b
J901
P905
FROM MECHA BLOCK
LEFT
2TRACK P.B HEAD
RIGHT
LEFT
4TRACK P.B HEAD
RIGHT
J904-a
J903
PRO 1000
schematic diagram
AMP BLK
NO. 000904



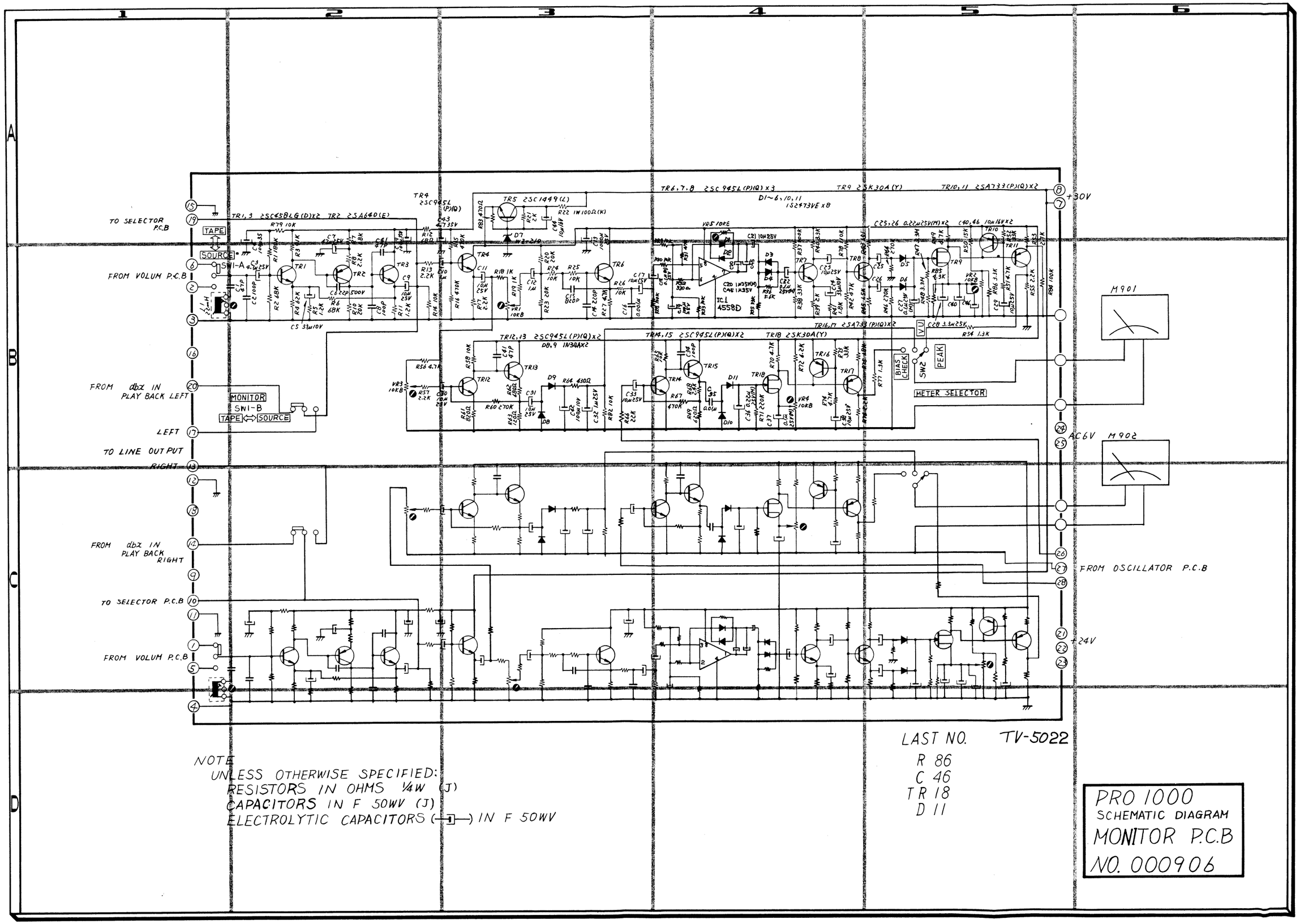

NOTE
UNLESS OTHERWISE SPECIFIED;
RESISTORS IN OHMS 1/4W (J)
CAPACITORS IN F 50WV(J)
ELECTROLYTIC CAPACITORS (⊣⊢) IN F

TV-5024

PRO-1000
SCHEMATIC DIAGRAM

SELECTOR P.C.B

No. 000905

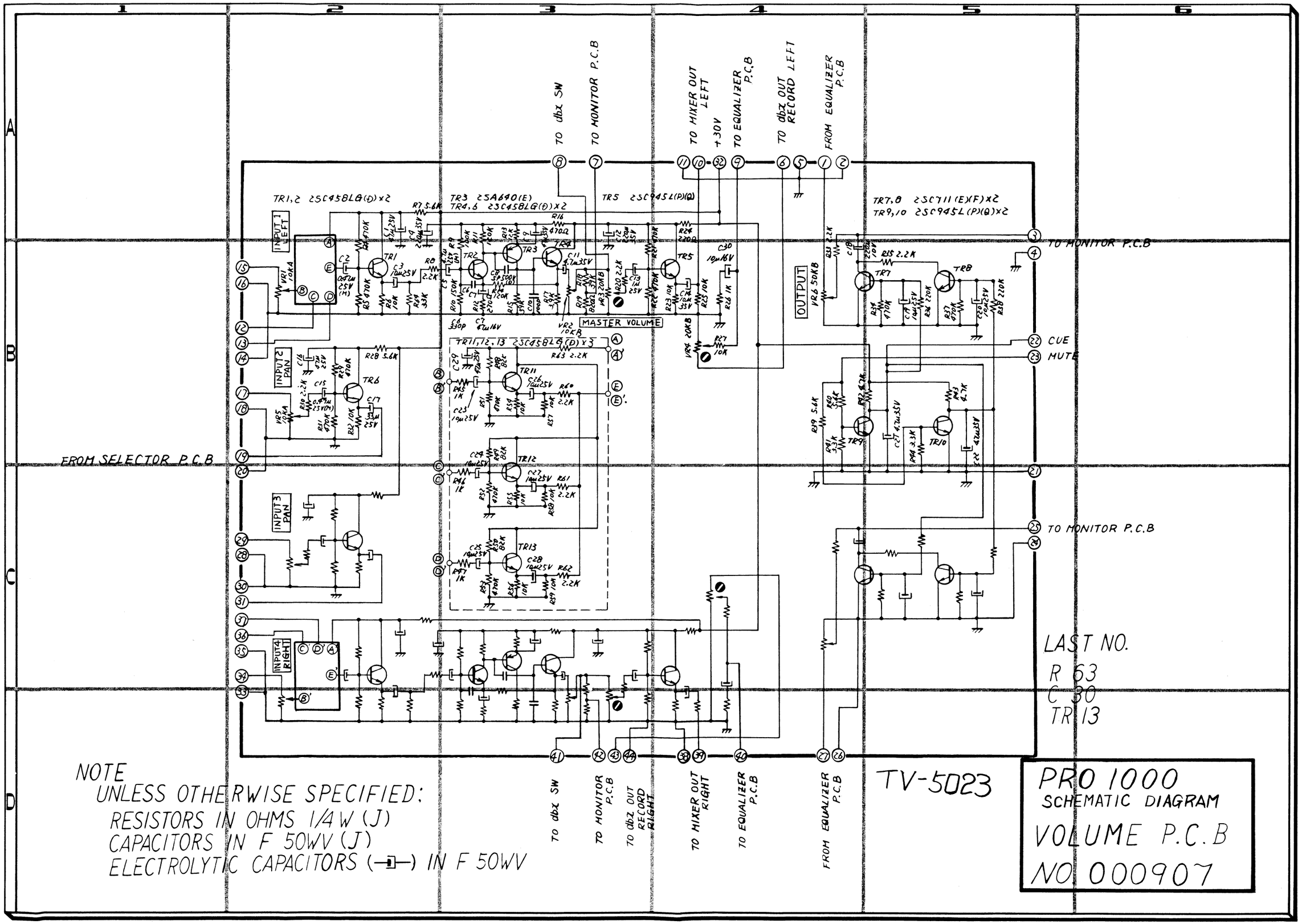



NOTE
UNLESS OTHERWISE SPECIFIED:
RESISTORS IN OHMS ¼W (J)
CAPACITORS IN F 50WV (J)
ELECTROLYTIC CAPACITORS (—|+|—) IN F 50WV

LAST NO. TV-5022

| | |
|---|---|
| R | 86 |
| C | 46 |
| TR | 18 |
| D | 11 |

PRO 1000
SCHEMATIC DIAGRAM
MONITOR P.C.B
NO. 000906

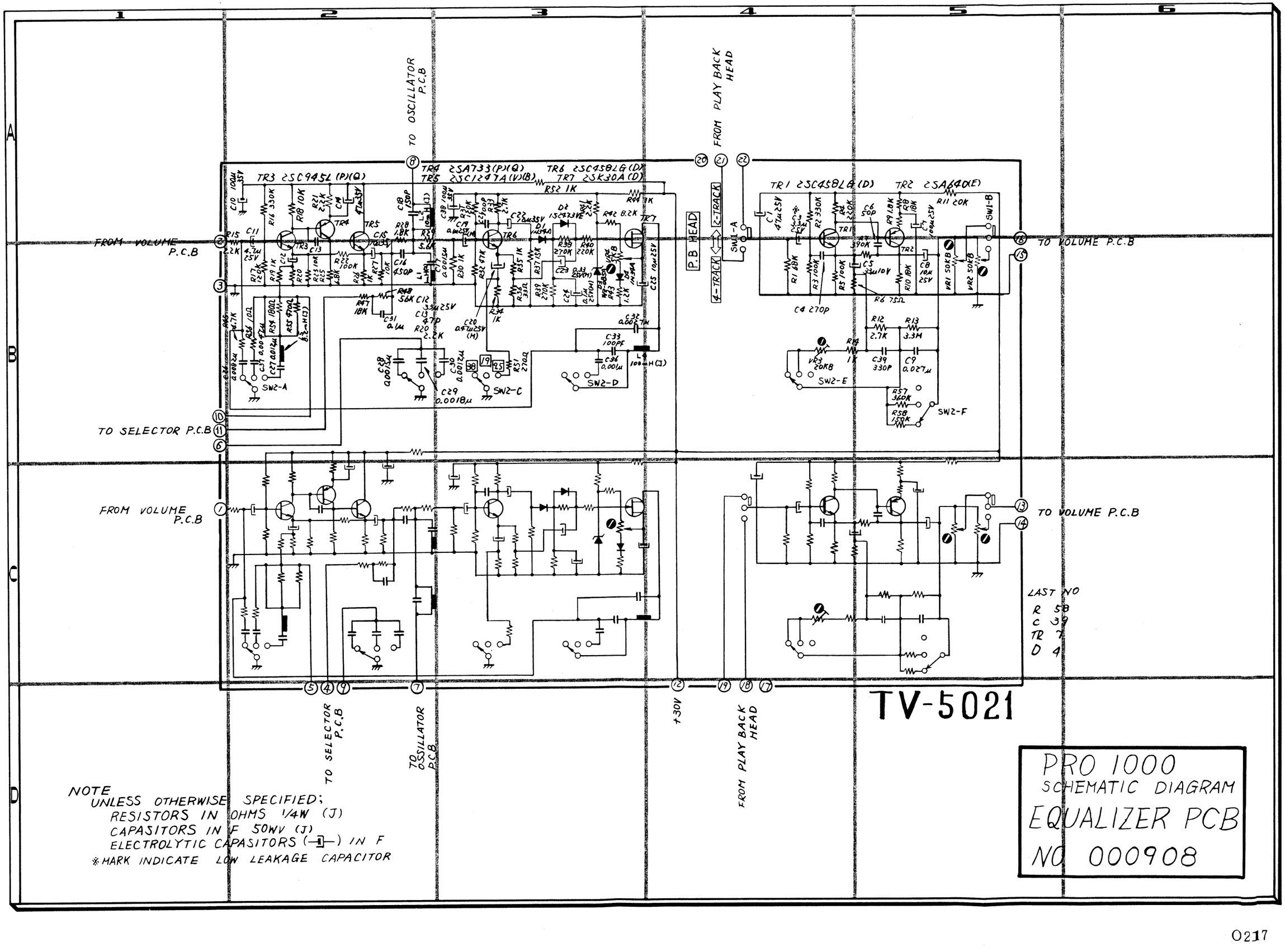


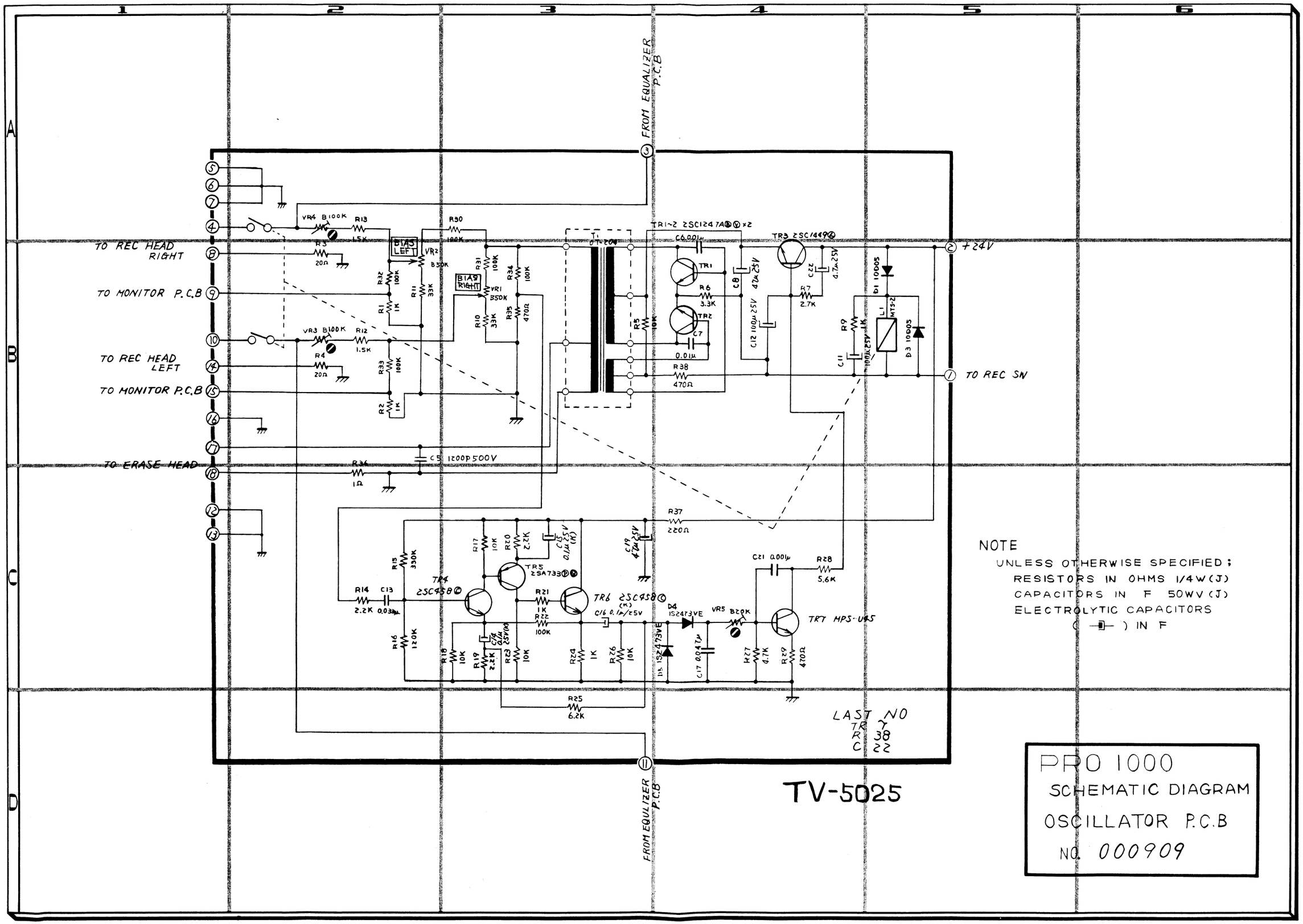

LAST NO.
R 63
C 30
TR 13

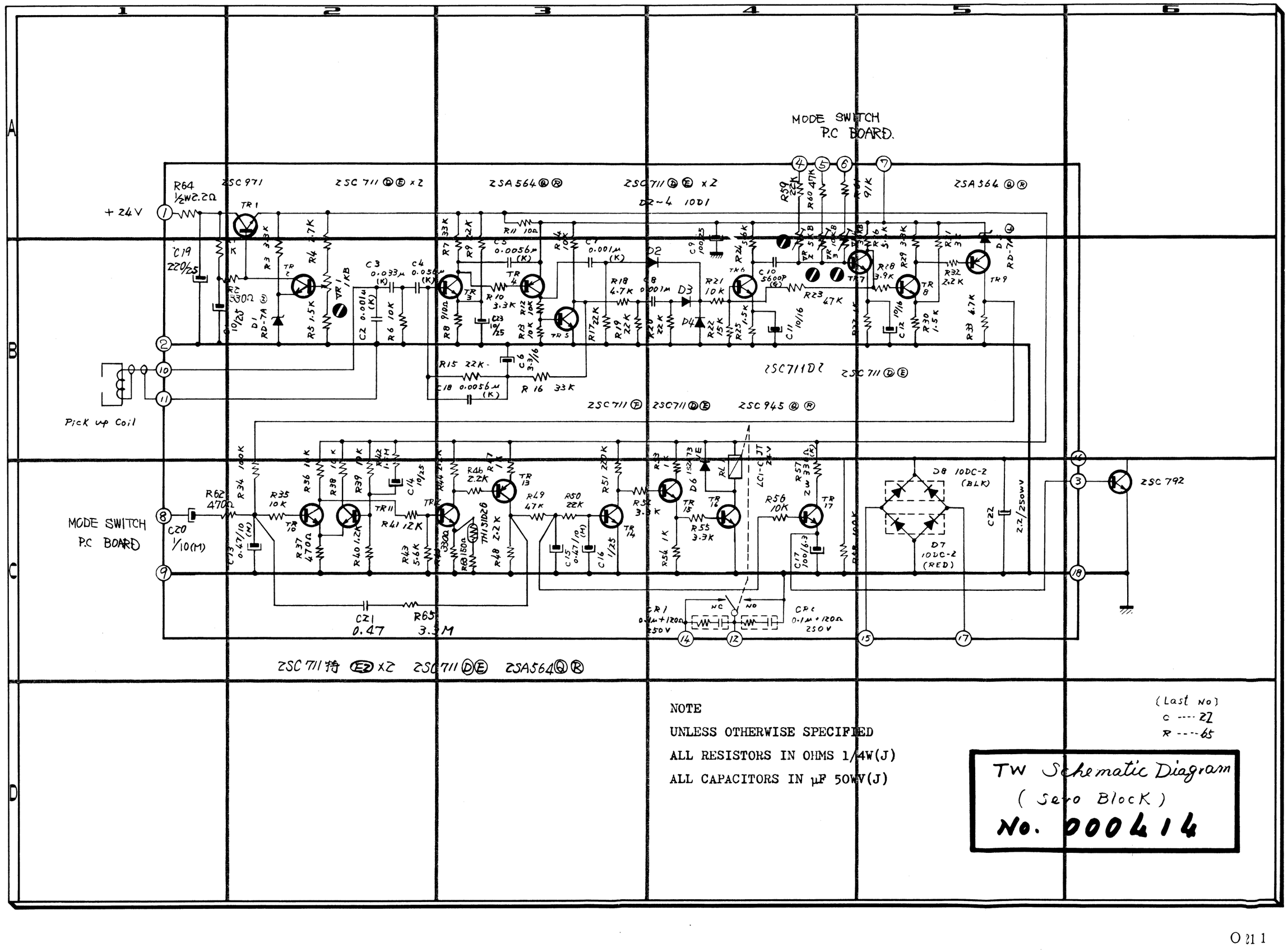
NOTE
UNLESS OTHERWISE SPECIFIED:
RESISTORS IN OHMS 1/4 W (J)
CAPACITORS IN F 50WV (J)
ELECTROLYTIC CAPACITORS (—▯—) IN F 50WV

TV-5023

PRO 1000
SCHEMATIC DIAGRAM
VOLUME P.C.B
NO 000907


TO OSCILLATOR P.C.B
FROM PLAY BACK HEAD
P.B HEAD
2-TRACK
4-TRACK
SW1-A
SW1-B
FROM VOLUME P.C.B
TO VOLUME P.C.B
TR3 2SC945L (P)(Q)
TR4 2SA733(P)(Q)
TR5 2SC1237A(V)(B)
TR6 2SC458LG(D)
TR7 2SK30A(D)
TR1 2SC458LG(D)
TR2 2SA640(E)
TO SELECTOR P.C.B
SW2-A
SW2-C
SW2-D
SW2-E
SW2-F
+30V
TV-5021
PRO 1000
SCHEMATIC DIAGRAM
EQUALIZER PCB
NO 000908
LAST NO
R 58
C 39
TR 7
D 4
NOTE
UNLESS OTHERWISE SPECIFIED;
RESISTORS IN OHMS 1/4W (J)
CAPASITORS IN F 50WV (J)
ELECTROLYTIC CAPASITORS (—|(—) IN F
※MARK INDICATE LOW LEAKAGE CAPACITOR


FROM EQUALIZER P.C.B
TO REC HEAD RIGHT
TO MONITOR P.C.B
TO REC HEAD LEFT
TO MONITOR P.C.B
TO ERASE HEAD
+24V
TO REC SW
FROM EQUALIZER P.C.B
TR1~2 2SC1247A
TR3 2SC1499
TR4 2SC458
TR5 2SA733
TR6 2SC458
TRT MPS-U05
D4 1S2473VE
BIAS LEFT
BIAS RIGHT
VR4 B100K
VR3 B100K
VR2 B50K
VR1 B50K
VR5 B20K
R3 20Ω
R4 20Ω
R13 1.5K
R12 1.5K
R30 100K
R31 100K
R32 100K
R33 100K
R34 100K
R1 1K
R2 1K
R11 33K
R10 33K
R35 470Ω
R5 10K
R6 3.3K
R7 2.7K
R38 470Ω
R9 1K
R37 220Ω
R28 5.6K
R14 2.2K
R15 330K
R16 120K
R17 10K
R18 10K
R19 2.2K
R20 2.2K
R23 10K
R24 1K
R26 10K
R21 1K
R22 100K
R25 6.2K
R27 4.7K
R29 470Ω
C5 1200P 500V
C6 0.001μ
C7 0.01μ
C8 47μ 25V
C9 0.1μ 25V (M)
C10 47μ 25V
C11 100μ 25V
C12 100μ 25V
C13 0.033μ
C14 0.1μ 25V
C16 0.1μ 25V
C17 0.047μ
C18 47μ 25V
C21 0.001μ
C22 4.7μ 25V
D1 1000S
D2 1S2473VE
D3 1000S
L1 MT-52
T1 TX-204
NOTE
UNLESS OTHERWISE SPECIFIED;
RESISTORS IN OHMS 1/4W (J)
CAPACITORS IN F 50WV (J)
ELECTROLYTIC CAPACITORS
( ⊣ ) IN F
LAST NO
TR 7
R 38
C 22
TV-5025
PRO 1000
SCHEMATIC DIAGRAM
OSCILLATOR P.C.B
NO. 000909




NOTE

UNLESS OTHERWISE SPECIFIED

ALL RESISTORS IN OHMS 1/4W(J)

ALL CAPACITORS IN μF 50WV(J)

(Last No)

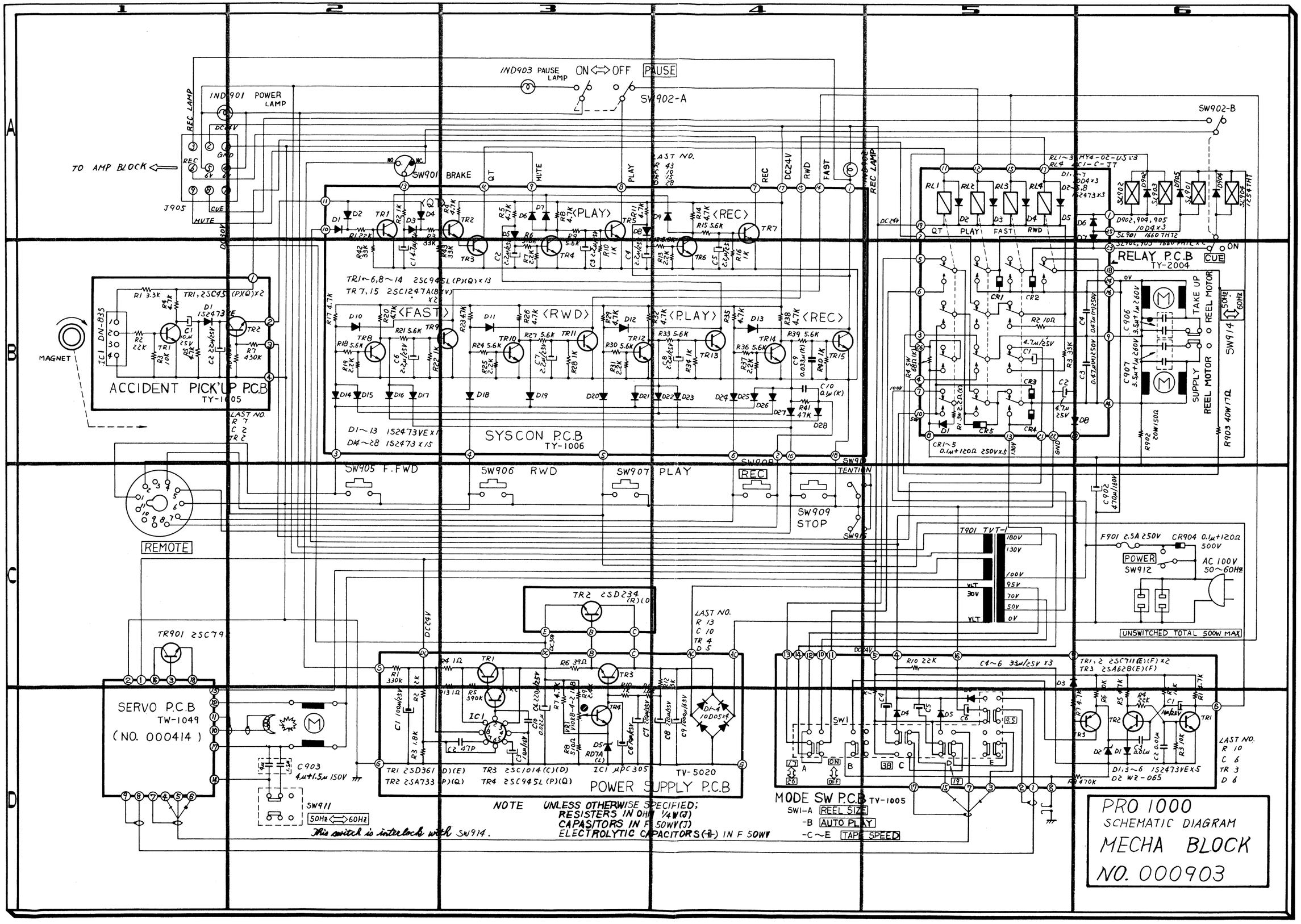
C ---- 27

R ---- 65

TW Schematic Diagram

( Servo Block )

No. 000414


IND903 PAUSE LAMP
ON ⇔ OFF
PAUSE
SW902-A
SW902-B
IND901 POWER LAMP
REC LAMP
DC24V
GND
REC
6V
CUE
MUTE
J905
TO AMP BLOCK ⇐
SW901 BRAKE
QT
MUTE
PLAY
REC
DC24V
RWD
FAST
REC LAMP
LAST NO.
R 42 33K
C 14 1μ/16V
TR1 2SC945L(P)(Q) x2
TR2 2SC945L(P)(Q) x13
TR7,15 2SC1247A(B)(V) x2
TR1~6,8~14 2SC945L(P)(Q) x13
TR7,15 2SC1247A(B)(V) x2
D1~13 1S2473VE x13
D14~28 1S2473 x15
SYSCON P.C.B
TY-1006
ACCIDENT PICK'UP P.C.B
TY-1005
MAGNET
ICI DN-835
LAST NO.
R 7
C 2
TR 2
RELAY P.C.B
TY-2004
CUE
ON
SW914
50Hz
60Hz
TAKE UP REEL MOTOR
SUPPLY REEL MOTOR
R903 40W 17Ω
R902 20W 150Ω
C906 3.5at1μ 260V
C907 3.5at1μ 260V
C902 470μ/160V
SW905 F.FWD
SW906 RWD
SW907 PLAY
REC
SW908
SW909 STOP
TENTION
SW910
REMOTE
TR901 2SC794
SERVO P.C.B
TW-1049
(NO. 000414)
C903 4μ+1.5μ 150V
SW911
50Hz ⇔ 60Hz
This switch is interlock with SW914.
TR2 2SD234 (R)(O)
LAST NO.
R 13
C 10
TR 4
D 5
TR1 2SD361 (D)(E)
TR2 2SA733 (P)(Q)
TR3 2SC1014 (C)(D)
TR4 2SC945L (P)(Q)
IC1 μPC305
TV-5020
POWER SUPPLY P.C.B
NOTE UNLESS OTHERWISE SPECIFIED;
RESISTERS IN OHM 1/4W(J)
CAPASITORS IN F 50WV(J)
ELECTROLYTIC CAPACITORS(-) IN F 50WV
MODE SW P.C.B TV-1005
SW1-A REEL SIZE
-B AUTO PLAY
-C~E TAPE SPEED
T901 TVT-1
180V
130V
100V
95V
70V
50V
0V
VLT
YLT
F901 2.5A 250V
CR904 0.1μ+120Ω 500V
POWER SW912
AC 100V 50~60Hz
UNSWITCHED TOTAL 500W MAX
TR1,2 2SC711(E)(F) x2
TR3 2SA628(E)(F)
LAST NO.
R 10
C 6
TR 3
D 6
D1,3~6 1S2473VE x5
D2 WZ-065
PRO 1000
SCHEMATIC DIAGRAM
MECHA BLOCK
NO. 000903